Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A coated fuel cell bipolar plate comprising:

a metal plate;

an electrically conductive coating over the metal plate; and

a corrosion resistant overcoating formed over the electrically conductive coating,

the corrosion resistant overcoating including graphite;

wherein the electrically conductive coating bonds the corrosion resistant overcoating to the metal plate.

- 2. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the metal plate comprises aluminum.
- 3. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the electrically conductive coating is a graphite emulsion.
- 4. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the electrically conductive coating includes graphite particles in an organic suspension.
- 5. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, where the corrosion resistant overcoating includes exfoliated graphite.
- 6. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating includes porosities that are filled by the electrically conductive coating.

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- 7. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is a foil.
- 8. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating includes particulate graphite flakes which have been processed through an intercalation process.
- 9. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is electrically conductive.
- 10. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is hydrophobic.
- 11. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating is anisotropic.
- 12. (Previously Presented) A coated fuel cell bipolar plate as claimed in claim 1, wherein the corrosion resistant overcoating has a thickness approximately between 0.04 and 1.0 millimeters.
- 13. (Previously Presented) A method of manufacturing a coated bipolar plate for a fuel cell, the method comprising the steps of:

providing a metal plate;

providing an electrically conductive coating over the metal plate; and providing a corrosion resistant overcoating over the electrically conductive coating, the corrosion resistant overcoating including graphite;

wherein the electrically conductive coating bonds the corrosion resistant overcoating to the metal plate.

14. (Previously Presented) A method as claimed in claim 13, wherein the electrically conductive coating is an emulsion, suspension or paint including graphite particles.

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OF NON-COMPLIANT AMENDMENT

15. (Previously Presented) A method as claimed in claim 13, wherein the corrosion resistant overcoating includes exfoliated graphite.

16. (Previously Presented) A method as claimed in claim 13, wherein the step of providing the corrosion resistant overcoating includes pressing at least one sheet of graphite foil over the electrically conductive coating.

- 17. (Original) A method as claims in claim 16, wherein the metal plate is heated during the pressing step.
- 18. (Previously Presented) A method as claimed in claim 13, further comprising the step of: forming a flow field on the corrosion resistant overcoating.
- 19. (Previously Presented) A method as claimed in claim 13, further comprising the step of: mechanically deforming the metal plate, the electrically conductive coating and the corrosion resistant overcoating to create a flow field.
- 20. (Previously Presented) A method of manufacturing a coated bipolar plate for a fuel cell, the method comprising the steps of:

providing a metal plate;

providing an electrically conductive coating over the metal plate; and providing a corrosion resistant overcoating over the electrically conductive coating, the corrosion resistant overcoating being electrically conductive and hydrophobic;

wherein the electrically conductive coating bonds the corrosion resistant overcoating to the metal plate.

21. (Previously Presented) A coated fuel cell bipolar plate comprising:

a metal plate including an outer surface;

an electrically conductive coating over the outer surface; and

an overcoating formed over the electrically conductive coating, the overcoating including graphite, the overcoating including porosities that are filled by the electrically

conductive coating.

22. (Previously Presented) A coated fuel cell bipolar plate comprising:

a metal plate including an outer surface;

an electrically conductive coating over the outer surface; and

an overcoating formed over the electrically conductive coating, the overcoating

including graphite, the overcoating being a foil.

23. (Previously Presented) A coated fuel cell bipolar plate comprising:

a metal plate including an outer surface;

an electrically conductive coating over the outer surface; and

an overcoating formed over the electrically conductive coating, the overcoating

including graphite, the overcoating having a thickness approximately between 0.04 and 1.0

millimeters.

24. (Previously Presented) A method of manufacturing a coated bipolar plate for a fuel cell,

the method comprising the steps of:

providing a metal plate with an outer surface;

providing an electrically conductive coating over the outer surface; and

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providing an overcoating over the electrically conductive coating, the overcoating

including graphite;

wherein the step of providing the overcoating includes pressing at least one sheet

of graphite foil over the electrically conductive coating.

25. (Previously Presented) A method as claimed in claim 24, wherein the metal plate is heated during the pressing step.